

## ACTIVE DEBUGGING ENVIRONMENT FOR APPLICATIONS CONTAINING COMPILED AND INTERPRETED PROGRAMMING LANGUAGE CODE

### Abstract

An active debugging environment for debugging a virtual application that  
5 contains program language code from multiple compiled and/or interpreted  
programming languages. The active debugging environment is language neutral  
and host neutral, where the host is a standard content centric script host with  
language engines for each of the multiple compiled and/or interpreted  
programming languages represented in the virtual application. The active  
10 debugging environment user interface can be of any debug tool interface design.  
The language neutral and host neutral active debugging environment is  
facilitated by a process debug manager that catalogs and manages application  
specific components, and a machine debug manager that catalogs and manages  
the various applications that comprise a virtual application being run by the script  
15 host. The process debug manager and the machine debug manager act as an  
interface between the language engine specific programming language details  
and the debug user interface.